

WHAT IS CLAIMED:

1. A method, comprising:
fusing a nuclear donor cell with an enucleated recipient cell to form a nuclear transfer embryo; and
- 5 introducing an artificial chromosome into the nuclear transfer embryo, whereby the resulting nuclear transfer embryo comprises the artificial chromosome, wherein:
introduction into the nuclear transfer embryo is effected by introducing the artificial chromosome into a donor cell or enucleated
- 10 recipient prior to fusing a nuclear donor cell with an enucleated recipient cell, or is introduced into the embryo after fusing a nuclear donor cell with an enucleated recipient cell.
2. The method of claim 1, wherein the artificial chromosome is a minichromosome or a satellite artificial chromosome.
- 15 3. The method of claim 1, further comprising:
activating the nuclear transfer embryo; and
transferring the nuclear transfer embryo into a maternal host animal.
4. The method of claim 3, further comprising:
- 20 permitting the transferred nuclear transfer embryo to develop into an animal in the host.
5. The method of claim 4, wherein the artificial chromosome comprises heterologous DNA that encodes a gene product.
6. The method of claim 3, wherein the host is selected from
- 25 among a cow, goat, mouse, ox, camel, pig and sheep.
7. The method of claim 5, wherein the resulting animal expresses the gene product in its milk.
8. The method of claim 1, wherein the artificial chromosome is introduced into the nuclear donor cell prior to fusion of the nuclear donor
- 30 cell with the enucleated recipient cell.

9. The method of claim 1, wherein the artificial chromosome is introduced into the enucleated recipient cell prior to fusion of the nuclear donor cell with the enucleated recipient cell.

10. The method of claim 1, wherein the artificial chromosome is introduced into the nuclear transfer embryo after fusion of the nuclear donor cell with the enucleated recipient cell.

11. The method of claim 1, wherein the artificial chromosome is a satellite artificial chromosome.

12. The method of claim 2, wherein the artificial chromosome is a satellite artificial chromosome.

13. The method of claim 3, wherein the artificial chromosome is a satellite artificial chromosome.

14. The method of claim 4, wherein the artificial chromosome is a satellite artificial chromosome.

15. The method of claim 5, wherein the artificial chromosome is a satellite artificial chromosome.

16. The method of claim 6, wherein the artificial chromosome is introduced into the nuclear donor cell by a method selected from among direct uptake, microinjection, cell fusion, microcell fusion, electroporation, electrofusion, projectile bombardment, calcium phosphate precipitation and lipid-mediated transfer.

17. The method of claim 9, wherein the artificial chromosome is introduced into the nuclear donor cell by a method selected from among direct uptake, microinjection, cell fusion, microcell fusion, electroporation, electrofusion, projectile bombardment, calcium phosphate precipitation and lipid-mediated transfer.

18. The method of claim 10, wherein the artificial chromosome is introduced into the embryo by a method selected from among direct uptake, microinjection, cell fusion, microcell fusion, electroporation, electrofusion, projectile bombardment, calcium phosphate precipitation and lipid-mediated transfer.

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Variable	Mean	SD	Min	Max	Median	Mode	Skewness	Kurtosis	Shapiro-Wilk	Normality
Age	35.2	12.5	18	65	32	30	0.15	2.10	0.98	Normal
Gender	1.2	0.4	1	2	1	1	0.05	0.10	0.99	Normal
Marital Status	2.1	0.8	1	3	2	2	0.10	0.50	0.97	Normal
Education	12.5	2.1	9	16	12	12	0.20	1.50	0.95	Normal
Income	1500	500	500	3000	1200	1000	0.30	2.50	0.92	Normal
Occupation	1.5	0.5	1	3	1	1	0.05	0.10	0.99	Normal
Health Status	2.5	0.5	1	3	2	2	0.10	0.50	0.97	Normal
Stress Level	3.2	1.0	1	5	3	3	0.15	2.10	0.98	Normal
Life Satisfaction	4.1	0.8	3	5	4	4	0.10	0.50	0.97	Normal
Resilience	3.8	0.9	2	5	3	3	0.15	2.10	0.98	Normal
Emotional Stability	4.5	0.7	3	5	4	4	0.10	0.50	0.97	Normal
Self-Esteem	4.2	0.8	3	5	4	4	0.10	0.50	0.97	Normal
Life Purpose	3.9	0.9	2	5	3	3	0.15	2.10	0.98	Normal
Meaning in Life	4.0	0.8	3	5	4	4	0.10	0.50	0.97	Normal
Existential Well-being	3.7	0.9	2	5	3	3	0.15	2.10	0.98	Normal
Overall Well-being	4.3	0.7	3	5	4	4	0.10	0.50	0.97	Normal